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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/044,147	01/11/2002	Wendy J. Coulson	04813.0017.NPUS01	1118	
75	590 01/25/2005	EXAMINER			
HOWREY SIMON ARNOLD & WHITE LLP			MAPLES, JOHN S		
301 RAVENSWOOD AVENUE, BOX 34 MENLO PARK., CA 94025			ART UNIT	PAPER NUMBER	
	<i>"</i>		1745		

DATE MAILED: 01/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)				
Office Action Summary		10/044,14	17	COULSON ET AL.				
		Examiner		Art Unit				
		John S. A	/laples	1745				
Period for	The MAILING DATE of this commun	nication appears on the	cover sheet with the c	orrespondence address				
A SHC THE M - Extens after S - If the p - If NO p - Failure Any re	PRTENED STATUTORY PERIOD F IAILING DATE OF THIS COMMUN ions of time may be available under the provision IX (6) MONTHS from the mailing date of this comeriod for reply specified above is less than thirty (seriod for reply is specified above, the maximum seriod for reply by within the set or extended period for reply preceived by the Office later than three months patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no even munication. 30) days, a reply within the stat tatutory period will apply and w y will, by statute, cause the app	ent, however, may a reply be timutory minimum of thirty (30) days II expire SIX (6) MONTHS from lication to become ABANDONE	ely filed  s will be considered timely. the mailing date of this communication.  O (35 U.S.C. § 133).				
Status								
1)⊠ F	Responsive to communication(s) fil	ed on <u>21 October</u> 200	<u>4</u> .					
·	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositio	on of Claims							
5)	Claim(s) 1-58 is/are pending in the application.  4a) Of the above claim(s) 32-54 and 58 is/are withdrawn from consideration.  Claim(s) is/are allowed.  Claim(s) 1-31 and 55-57 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or election requirement.							
Application	n Papers							
10) T	he specification is objected to by the drawing(s) filed on is/are Applicant may not request that any objected the country of the countr	e: a) accepted or b) ection to the drawing(s) be g the correction is requir	e held in abeyance. See ed if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
Priority ur	nder 35 U.S.C. § 119							
12)	cknowledgment is made of a claim All b) Some * c) None of: Certified copies of the priority Copies of the certified copies application from the Internations the attached detailed Office actions.	documents have beed documents have beed of the priority documental Bureau (PCT Rul	n received. n received in Application ents have been receive e 17.2(a)).	on No d in this National Stage				
2) Notice 3) Inform	s) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review ( ation Disclosure Statement(s) (PTO-1449 o No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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- 1. Applicant's election of Group I in the reply filed on October 21, 2004 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
- Claims 32-54 and 58 are withdrawn from further consideration pursuant to 37 CFR
   1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim
- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1-31 and 55-57 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claims contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

In each of independent claims 1, 9 and 23, applicant has claimed "a second conductor connecting to the second access path". This language is incorrect because the second conductor could not be physically connected to an access path. As understood from the current specification, an access path comprises, for example, in Figure 3, member 318 which space allows for the fuel to access the anode. It is not possible for a conductor to be connected to such as access path. The same is true for the fuel cell depicted in Figure 6A where access paths 520b and 518a are cathode and anode access wells/paths, respectively. Again, a conductor could not be physically connected with such paths.

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Claims 2-8, 10-22/55-56, 24-32/57, dependent on claims 1, 9 and 23, respectively, fall therewith.

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 5, 7 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Each of claims 5, 7 and 8 set forth a "system". There is no antecedent basis for this term in these claims.

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 8. Claims 1-3 and 5-8, as best understood, are rejected under 35 U.S.C. 102(e) as being anticipated by Jankowksi et al.-US 6,638,654 (Jankowksi) or Bostaph et al.-US 6,727,016 (Bostaph).

Reference is made to Figures 1 and 8 to Jankowksi along with column 5, line 1 through column 6, line 63 and column 10, line 65 through column 11, line 22. There portions of Jankowksi set forth the claimed fuel cell integrated on or into a planar substrate 16. As seen in Figure 1, oxidant is fed from the top side of the substrate at 17 onto one side of the fuel cell

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while fuel is fed from the bottom side of the substrate at 15 to the other side of the fuel cell.

Even though not shown in Jankowksi, it is inherent that a conductor is attached to each of the anode and the cathode because the same are utilized in every fuel cell to conduct the electricity from the fuel cell.

With regard to Bostaph, see the abstract therein along with Figures 1-3, column 3, lines 30-49 and column 8, lines 39-67. As seen in Figure 1, the fuel cell 12 is fed by air from the top of the substrate 28 and fed by fuel from the bottom of the substrate 14. Even though not shown in Bostaph, it is inherent that a conductor be attached to each of the anode and the cathode because the same are utilized in every fuel cell to conduct the electricity from the fuel cell.

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Worth shows a metal fuel cell of interest.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John S. Maples whose telephone number is 571-272-1287. The examiner can normally be reached on Monday-Thursday from 6:15-3:45.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John S. Maples Primary Examiner Art Unit 1745

JSM/1-24-2005